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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,220	09/29/2003	Jessy Rouyer	139165USNP	2505
77216 ALCATEL-LU	7590 09/02/201 [,] CENT	EXAMINER		
C/O GALASSO & ASSOCIATES, LP			CHRISS, ANDREW W	
P. O. BOX 26503 AUSTIN, TX 78755-0503			ART UNIT	PAPER NUMBER
,			2472	
			MAIL DATE	DELIVERY MODE
			09/02/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, PROM THE MAILING DATE OF THIS COMMUNICATION. - Established for mapty is evaluated to the provision of 3 CFR 1.1362, in no event, however, may a reply be trinky filled. - If NO period for regly is specified above, the resultment statutory point of will apply and will expire SIX (8) MONTHS from the mating due of this communication. - Failur to review within the sid or contributed private for apply will, by statute, application in the mating due of this communication. - Failur to review within the sid or contributed private for apply will, by statute, application in the mating due of this communication. - Failur to review within the sid or contributed private for application in the mating due of this communication, even if timely filled, may reduce any search plantal times application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a) (d) or (f). a) All b) Assome 'c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been r		Application No.	Applicant(s)				
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1) Responsive to communication(s) filed on 27 April 2010. 2a	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any						
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Art Unit: 2472

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 27, 2010 has been entered.

Response to Amendment

- 2. Applicant's amendment, filed April 27, 2010, has been entered and carefully considered. Claim 1 is amended, Claim 21 is canceled, and Claims 1-20 are currently pending.
- 3. In light of Applicant's amendment to Claim 1, the outstanding rejections of Claims 1-20 under 35 U.S.C. 103(a) are withdrawn.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 1 and 8-11 rejected under 35 U.S.C. 103(a) as being unpatentable over Ambe (United States Patent 7,061,876) in view of Rigby et al (United States Patent Application Publication US 2003/0223358 A1), hereinafter Rigby, and Shabtay et al (United States Patent 7,197,008), hereinafter Shabtay.

Regarding Claim 1, Ambe discloses a bridged network system, as shown in Figure 1A. The bridged network comprises a plurality of nodes (switches B1-B5), wherein each node is coupled to communicate with at least one other node in the plurality of nodes, and wherein the plurality of nodes comprise a bridge network between external nodes (terminals A11 through A53) located externally from the plurality of nodes. Further, each node is operable to receive a frame (packet) as shown in Figure 11, wherein the packet comprises a destination MAC address list, as shown in Figure 9B. Further, Ambe discloses that responsive to a packet being received prior to a time of failure between two of the plurality of nodes, the node transmits the packet along a first route in the system, as shown in step S14 in Figure 11. Examiner asserts that a packet being received prior to a time of failure is equivalent to the normal operating conditions of a network. However, Ambe does not disclose transmitting the packet along a second route that differs from a first route in the system after a time of failure in response to a route identifier and a node detecting a link failure. In the same field of endeavor, Rigby discloses a system in which nodes may detect failure via physical-based discovery techniques and determine a down path identifier (paragraph 0031). When a node receives a packet, it performs a lookup to identify

a primary and secondary forwarding element (i.e., first and second paths for the packet), as well as a primary path identifier (Figure 6; paragraph 0037). If the primary path identifier is found to match the stored down path identifier (paragraph 0037), the secondary forwarding information is used to forward the packet to a second route different than a first route (e.g., secondary route 50 in Figure 4 instead of primary route 40). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the path identifiers taught in Rigby with the bridged network system disclosed in Ambe in order to provide a protection switching mechanism to support traditional telecommunications traffic in packet-based networks. However, the aforementioned references do not disclose a route indicator field further comprising at least one bit that indicates a link type or an automatic change of state of the at least one bit that indicates the link type and sending a packet along a second route in response to the change of state of the at least one bit. In the same field of endeavor, Shabtay discloses a local protection bit which is read from received packets at intermediate nodes in the network (column 13, lines 3-7). If the local protection bit is set (i.e., the bit is changed in state), the packet is sent over a protection tunnel (i.e., second route) (column 13, lines 11-18). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the protection switching disclosed in Shabtay with the bridged network system disclosed in Ambe, as modified above, in order to inform edge nodes on the ends of a path that local protection was deployed along the path (see column 3, lines 24-28 of Shabtay.

Regarding Claim 8, Ambe further discloses identifying a transmit port in the node that corresponds to a receipt port in the node, as shown in Figure 7. Further, Ambe discloses transmitting a frame (packet) via the ports (column 4, lines 41-45). However, Ambe does not

disclose transmitting the packet along a second route. In the same field of endeavor, Rigby discloses transmitting a packet along a second route (paragraph 0039). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the path identifiers taught in Rigby with the bridged network system disclosed in Ambe in order to provide a protection switching mechanism to support traditional telecommunications traffic in packet-based networks.

Regarding Claim 9, Ambe further discloses an optimum spanning tree selection table, which does not contain a destination address (Figure 7). The optimum spanning tree is determined based on a hop count or by a path cost (column 2, lines 43-45). Therefore, the transmitting step is not responsive to a destination address in the packet.

Regarding Claim 10, Ambe discloses multiple nodes being operable to receive and transmit packets along any one of multiple routes, based on information contained in a spanning tree, until the packet reaches terminal A11 via switch B1, which serves as an egress node in the bridged network.

Regarding Claim 11, Ambe further discloses identifying a transmit port in the node that corresponds to a receipt port in the node, as shown in Figure 7. Further, Ambe discloses transmitting a frame (packet) via the ports (column 4, lines 41-45). However, Ambe does not disclose transmitting the packet along a second route. In the same field of endeavor, Rigby discloses transmitting a packet along a second route (paragraph 0039). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the path identifiers taught in Rigby with the bridged network system disclosed in Ambe in order to

provide a protection switching mechanism to support traditional telecommunications traffic in packet-based networks.

7. Claims 2-5 and 7 rejected under 35 U.S.C. 103(a) as being unpatentable over Ambe in view of Rigby and Shabtay, as applied to claim 1 above, and further in view of Perlman et al (United States Patent 5,796,740), hereinafter Perlman.

Regarding Claim 2, Ambe, Rigby, and Shabtay disclose all of the limitations of Claim 1, as discussed above. However, the references do not disclose determining a third route in the system after the time of failure, receiving a second packet after the first packet, transmitting the second packet along the third route. In the same field of endeavor, Perlman discloses determining a third link and receiving a subsequent (second) packet. Further, Perlman discloses forwarding said subsequent packet along a third route (column 18, lines 61-62). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the packet forwarding taught in Perlman with Ambe, as modified above, in order to reduce the time required to forward data packets.

Regarding Claim 3, Ambe, Rigby, and Shabtay do not disclose changing the state of the route indicator field to cause transmission to the third route after receiving the second packet and prior to transmitting the second packet. In the same field of endeavor, Perlman discloses writing a data link address of a receiving end station into a data link destination address field of a first packet (column 2, lines 52-63) and forwarding said first packet onto said third link (column 18, lines 61-62). Further Perlman discloses writing a data link address into data link destination address field of subsequent packets (which would include a second packet) transmitted to said receiving end station. It would have been obvious to one of ordinary skill in the art at the time of

the invention to combine the packet forwarding taught in Perlman with Ambe, as modified above, in order to reduce the time required to forward data packets.

Regarding Claim 4, Ambe discloses the terminal A31 transmits an ARP response frame whose destination MAC address for terminal A11, which is external to the plurality of nodes. (Column 6, lines 21-27). The switch B3, in order to transmit the frame, consults an expanded learning table (Figure 6), which identifies a transmit port in the node that corresponds to a destination address (MAC address) in the packet. After consulting the expanded learning tree, the switch transmits the ARP response frame along a first route, using a default spanning tree, via a transmit port (column 6, lines 53-56).

Regarding Claim 5, Ambe further discloses identifying a transmit port in the node that corresponds to a destination address in the packet, as discussed with regards to Claim 4 above. However, Ambe, Rigby, and Shabtay do not disclose transmitting the packet via the transmit port to the third route. In the same field of endeavor, Perlman discloses forwarding a packet along a third route, as discussed with regards to Claim 2 above. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the packet forwarding taught in Perlman with Ambe, as modified above, in order to reduce the time required to forward data packets.

Regarding Claim 7, Ambe further discloses setting the route indicator field and transmitting it along the first route. However, the references do not disclose performing these operations after receiving a second packet. In the same field of endeavor, Perlman discloses receiving a second packet, as discussed with regards to Claim 2 above. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the packet

forwarding taught in Perlman with Ambe, as modified above, in order to reduce the time required to forward data packets.

- 8. Claim 6 rejected under 35 U.S.C. 103(a) as being unpatentable over Ambe in view of Rigby, Shabtay, and Perlman as applied to claim 2 above, and further in view of Petersen et al (United States Patent 6,154,448), hereinafter Petersen. The combination of Ambe, Rigby, Shabtay, and Perlman disclose all of the limitations of Claim 2, as described above. However, the references do not disclose a node, adjacent to a failure in the first route, receiving the second packet. In the same field of endeavor, Petersen discloses a method for detecting a failure in a telecommunications network, wherein a second packet is received by a node adjacent to a failed link (column 11, lines 22-38). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the next hop loopback technique taught in Petersen with Ambe, as modified above, in order to implement the path restoration technique on an "as needed" basis rather than a periodic basis, thus conserving network resources.
- 9. Claim 12-14, 16, and 17 rejected under 35 U.S.C. 103(a) as being unpatentable over Ambe in view of Rigby and Shabtay, as applied to Claims 1 above, and further in view of Navar et al (United States Patent 6,915,445), hereinafter Navar. Ambe, Rigby, and Shabtay disclose all of the limitations of Claim 1, as described above. Further, Ambe discloses a first node (B3) in the plurality of nodes that receives a packet from a first external node (A31), thus comprising an ingress node. Ambe also discloses a second node (B1) in the plurality of nodes that is coupled to communicate the packet to a second external node (A11), thus comprising an egress node. However, the references do not disclose, responsive to a node in the plurality of nodes receiving a packet as an ingress node, inserting an address of the ingress node and the egress node into the

packet. In the same field of endeavor, Navar discloses a label switched router (LSR) 105 which acts as an ingress to a network. The LSR then switches the existing labels on the packets with new values representing ingress and egress addresses (column 6, lines 39-45). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the disclosure of Navar with Ambe, as modified above, in order to provide distributed processing, thus ensuring the routing will still be able to occur in spite of component failures.

Regarding Claim 13, Ambe further discloses transmitting the packet along either the first route or the second route by identifying a transmit port in the node (Figure 6) and transmitting the packet via the transmit port to either the first or second route (Figure 8), as described with regards to Claim 5 above.

Regarding Claim 14, Ambe further discloses transmitting the packet along either the first or second route responsive to a value of an optimum spanning tree, equivalent to Applicant's route indicator field (Figure 8).

Regarding Claim 16, Ambe further discloses a first route and a second route comprising routes in a plurality of different routes, wherein each route is identified prior to a time of failure using an optimum spanning tree (Figure 7), equivalent to Applicant's route indicator field.

Regarding Claim 17, Ambe further discloses each route in the plurality of different routes being identified by a corresponding and different value in the optimum spanning tree (Figure 7), equivalent to Applicant's route indicator field.

10. **Claim 15** rejected under 35 U.S.C. 103(a) as being unpatentable over Ambe in view of Rigby, Shabtay, and Navar, as applied to claim 14 above, and further in view of Habetha (United States Patent United States Patent 7,031,321). The combination of Ambe, Rigby, Shabtay, and

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Navar disclose all of the limitations of Claim 14, as described above. However, the references do not disclose the packet comprising a field indicating the allowability of an ingress node or a node adjacent a failure to change a state in the route indicator field. In the same field of endeavor, Habetha discloses an UPDATE TRIGGER message, which contains information on changes in the network topology (column 7, lines 41-51). This message would cause a node that receives it (e.g., an ingress node to a network, a node adjacent to a failure) to change its routing tables, and packets that come through. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the dynamic routing method taught in Habetha with Ambe, as modified above, in order to reduce the quantity of data to be transmitted when updating local routing tables.

11. **Claims 18 and 19** rejected under 35 U.S.C. 103(a) as being unpatentable over Ambe in view of Rigby, Shabtay, and Navar as applied to claim 16 above, and further in view of Nozaki et al (United States Patent 6,950,431), hereinafter Nozaki.

Regarding Claim 18, the combination of Ambe, Rigby, Shabtay, and Navar disclose all of the limitations of Claim 16, as described above. However, the references do not disclose the packet comprising a VLAN identifier field. In the same field of endeavor, Nozaki discloses a packet structure containing a VLAN-ID, as shown in Figure 3. It would have been obvious to one of ordinary skill in the art at the time of the invention the disclosure of Nozaki with Ambe, as modified above, in order to provide an information relay technique capable of providing a multicast service without increasing the amount of control traffic in the network.

Regarding Claim 19, the combination of Ambe, Rigby, Shabtay, and Navar does not disclose the VLAN identifier field facilitating registration of selected different routes in the

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plurality of routes. In the same field of endeavor, Nozaki discloses a VLAN table in Figure 2 which uses the VLAN-ID to register multiple routes. It would have been obvious to one of ordinary skill in the art at the time of the invention the disclosure of Nozaki with Ambe, as modified above, in order to provide an information relay technique capable of providing a multicast service without increasing the amount of control traffic in the network.

12. Claim 20 rejected under 35 U.S.C. 103(a) as being unpatentable over Ambe in view of Rigby, Shabtay, and Navar as applied to claim 16 above, and further in view of Perlman. The combination of Ambe, Rigby, Shabtay, and Navar discloses all of the limitations of Claim 16, as discussed above. However, the references do not disclose determining a third route in the system after the time of failure, receiving a second packet after the first packet, or transmitting the second packet along the third route. Perlman discloses determining a third route in the system, receiving a second packet, and transmitting the second packet along the third route, as discussed with regards to Claim 2 above. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the packet forwarding taught in Perlman with Ambe, as modified above, in order to reduce the time required to forward data packets in order to reduce the time required to forward data packets in order to reduce

Response to Arguments

13. Applicant's arguments filed April 27, 2010 with respect to rejection of Claims 1-20 under 35 U.S.C. 103(a) have been considered but are moot in view of the new grounds of rejection.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREW CHRISS whose telephone number is (571)272-1774. The examiner can normally be reached on Monday - Friday, 7:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Andrew Chriss/ Examiner, Art Unit 2472 8/30/2010